

Attorney Docket No. 10559-391001  
Serial No.: 09/745,104  
Amendment dated January 20, 2004  
Reply to Office Action dated November 19, 2003

Amendments to the Specification:

Please replace the current title as follows:

A1 Hardware Loops and ~~the~~ Pipeline System Using Advanced  
Generation of Loop Parameters

Please replace the paragraph beginning at page 4, line 9  
with the following amended paragraph:

A2 Processor 2 may include one or more pipelines 4 and a  
control unit 6. By way of example, the pipelines 4 may include  
one or more system pipelines, one or more data address  
generation pipelines, one or more execution unit pipelines, and  
one or more additional pipelines, as may be desired for a  
particular implementation. Control unit 6 may control the flow  
of instructions and/or data through the pipelines 4 during a  
clock cycle. For example, during the processing of an  
instruction, control unit 6 may direct the various components of  
the pipelines to decode the instruction and correctly perform  
the corresponding operation including, for example, writing the  
results back to memory.

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Please replace the paragraph beginning at page 11, line 1  
with the following amended paragraph:

A3  
The top and bottom values may indicate which instruction is  
at the top of the loop, and which instruction is at the bottom  
of the loop. The top and bottom values in the loop setup  
instruction, however, may be program counter (PC) relative.  
Therefore, a calculation (40) in AC stage may be used to obtain  
the top and bottom values that will be written to ETop 34A and  
EBot 34B registers respectively. After the loop setup  
instruction enters EX 1 (41), the top and bottom values may be  
written to the ETop 34A and EBot 34B registers (42).